TECHNICAL BULLETIN

Machine Type	Cooler	**Model**	NEW002 "Still water"	**T.B. Number: 05041801UKSD** **Date: 18th April 2005**	
Part numbers	Code 960479			**Approved By Italy**	
Subject	Fluctuating water levels			**ISSUED FOR CUSTOMER**	
				ACTION	**X**
				INFORMATION	

Problem

We have been informed of a few instances where **fluctuating water levels have occurred on still units**.

We have verified that it could happen in case of low inlet water pressure.

Cause

When Customers are experiencing variable drink volumes, this is mainly caused by variations in the inlet pressure to the Vending Machine: it means that the pressure is subject to variation and more importantly

Below what is required for the chillers (2 bars),

An inlet pressure of slightly higher than this is required to ensure the regulator is actually controlling the pressure and giving consistent drink volumes.

Product enhancement

Cooler NEW002 "Still water" (code 960479) - 2 syrups + 1 still water only
The flow regulator previously fitted has been removed starting from cold unit S/N **306514**.

Flow Regulators removed

With the black flow control device removed, the flow rate is simply set through the pressure regulator.
This will have the added benefit of allowing the chiller to operate at lower inlet pressures, while maintaining a flow rate that does not vary with inlet pressure.

All new units have been fitted with a new pressure regulator (range 0 - 2 bars, default setting = 1.3 bars) as replacement of the previous one (range 0 - 8 bars, default setting = 2 bars).

See picture below.

Pressure Regulator

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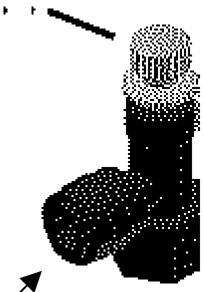

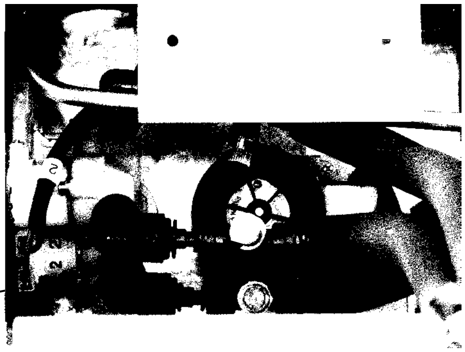

Action

The flow controller above was included to individually adjust the flow rate to the dispense harness, and the flow rate was set to 18ml/s at the factory.

It's not recommend that Customers remove the black flow controller from the previous units unless additional fittings are available (elbow union) to connect the 6mm dispense harness to the 8mm solenoid valves.

A better solution is to fully open the flow controller by fully unscrewing the adjustment screw, and locking it using the lock nut thus removing the resistance of the flow controller without having to physically take it out.

In order to improve the consistency of drink volume, it is also preferable to reduce the pressure regulator setting

To achieve this, it is advisable to set the vend time for the Still water outlet to the nominal setting (it has been estimated about 9 seconds), and adjusting the pressure regulator to give the correct drink volume.

This should ensure that the chiller performance is optimized with respect to consistency of drink volumes with low inlet pressures.

To adjust the pressure regulator, the top needs to be lifted, and pressure reduced by unscrewing the adjustment nut; once the correct setting is achieved, the adjustment nut should be pushed back in.

It is also advisable to ensure that the chiller is not powered up during adjustment of the regulator as the agitator motor is quite close and has only basic insulation.